

Serial No.: 10/675,545

8

REMARKS

Kindly enter this Preliminary Amendment before first action on the merits. By this Preliminary Amendment, Applicants have amended the specification to correct minor typographical errors. These amendments introduce no new matter.

Respectfully submitted,

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Docket No. L0562.70039US00

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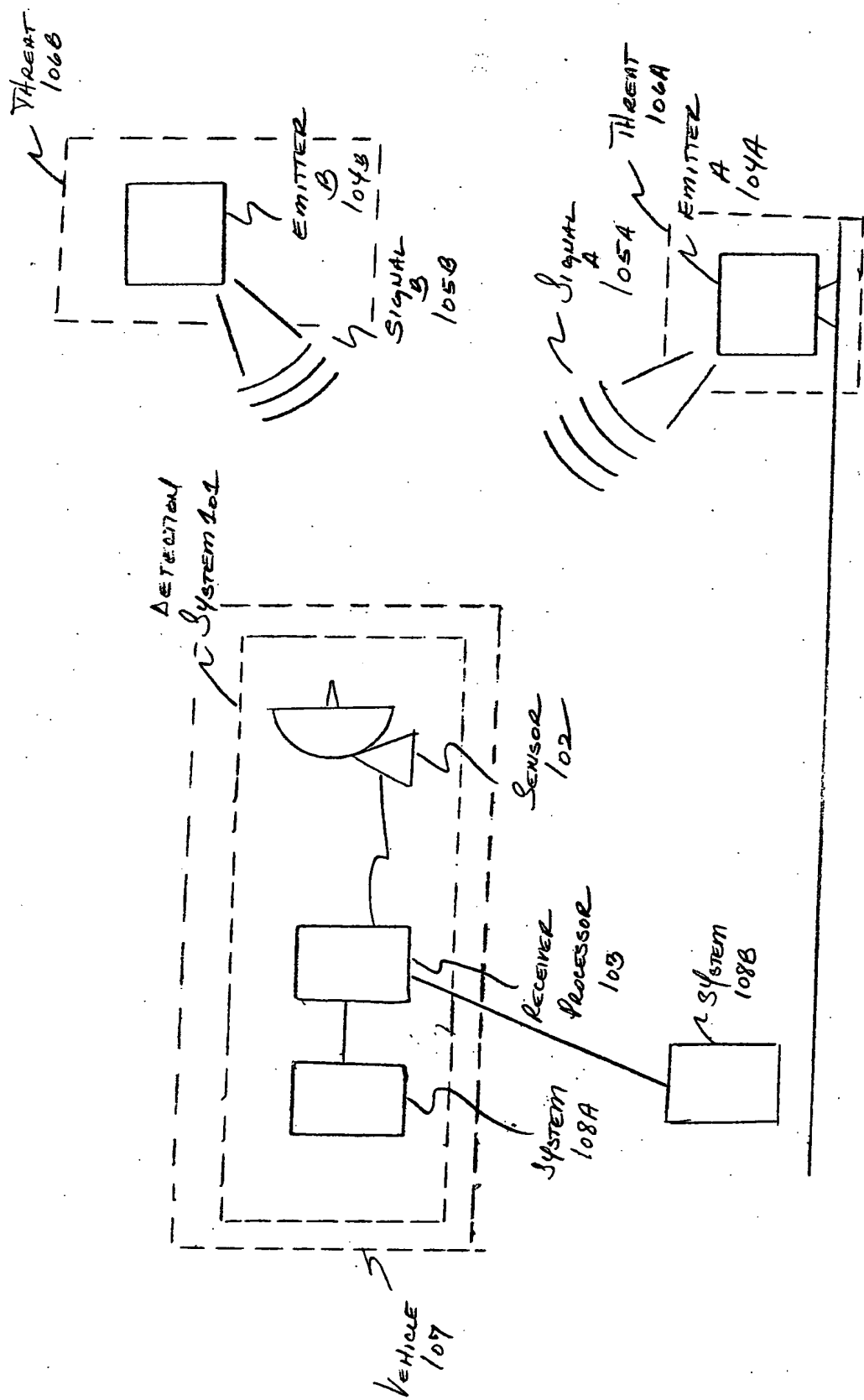


FIGURE 1

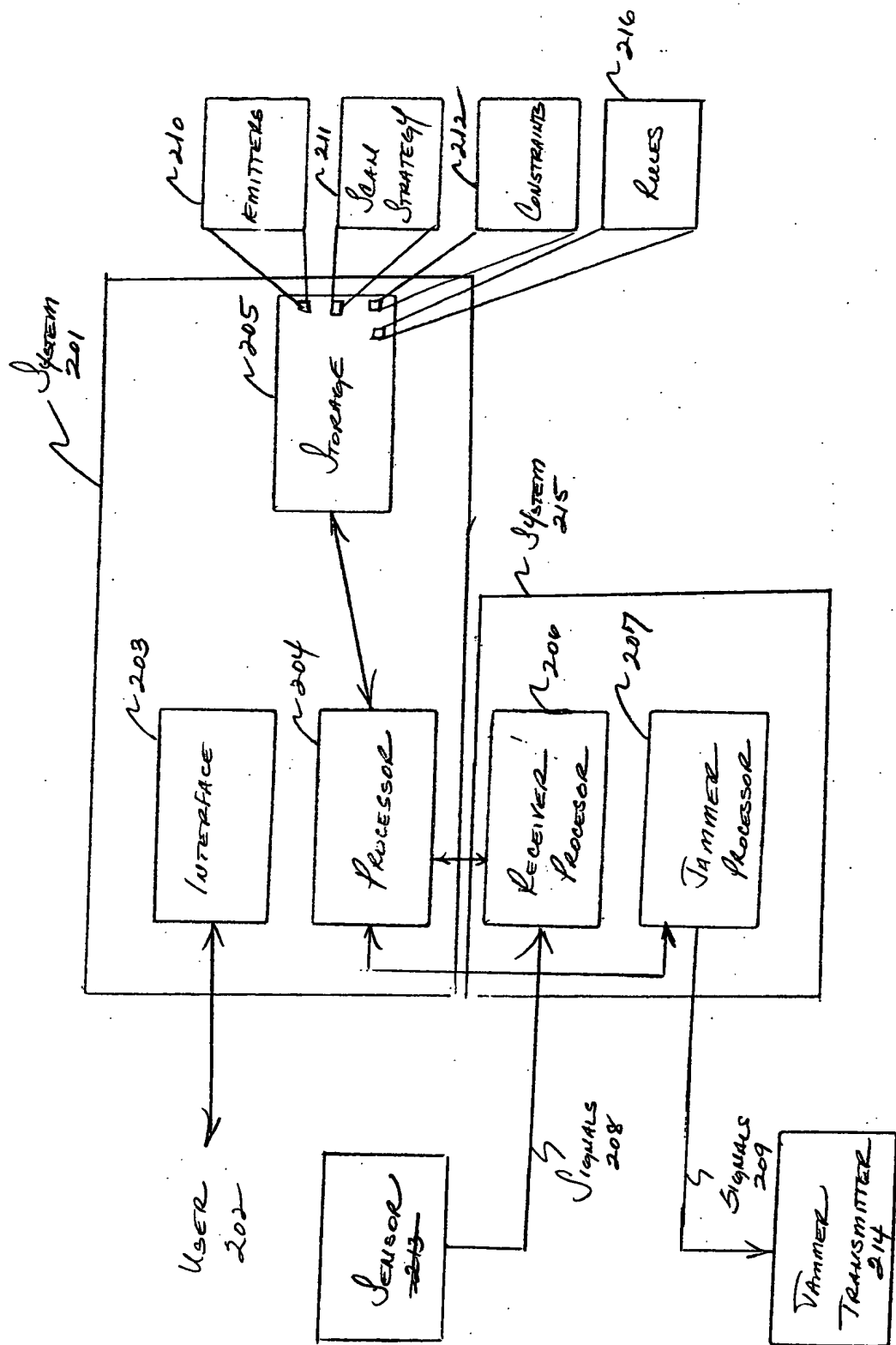
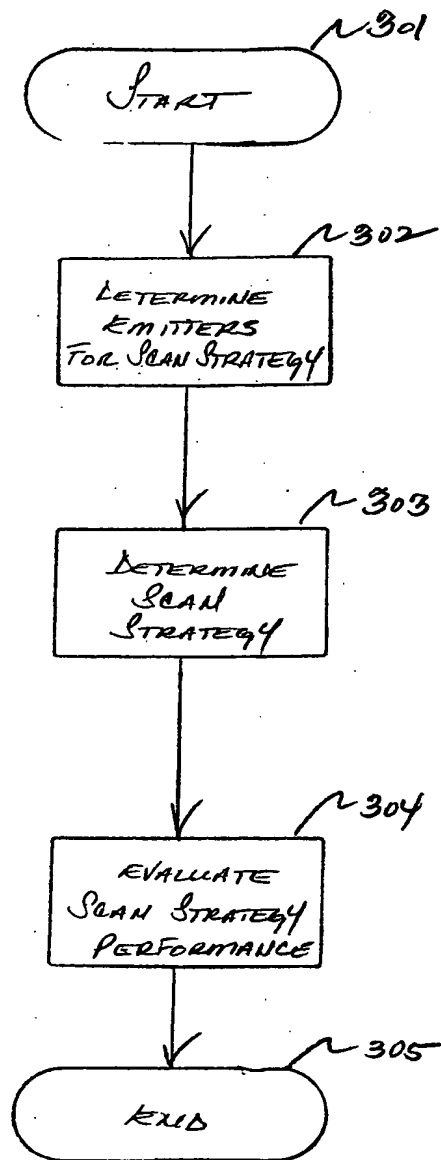


Figure 2



PROCESS
300

FIGURE 3

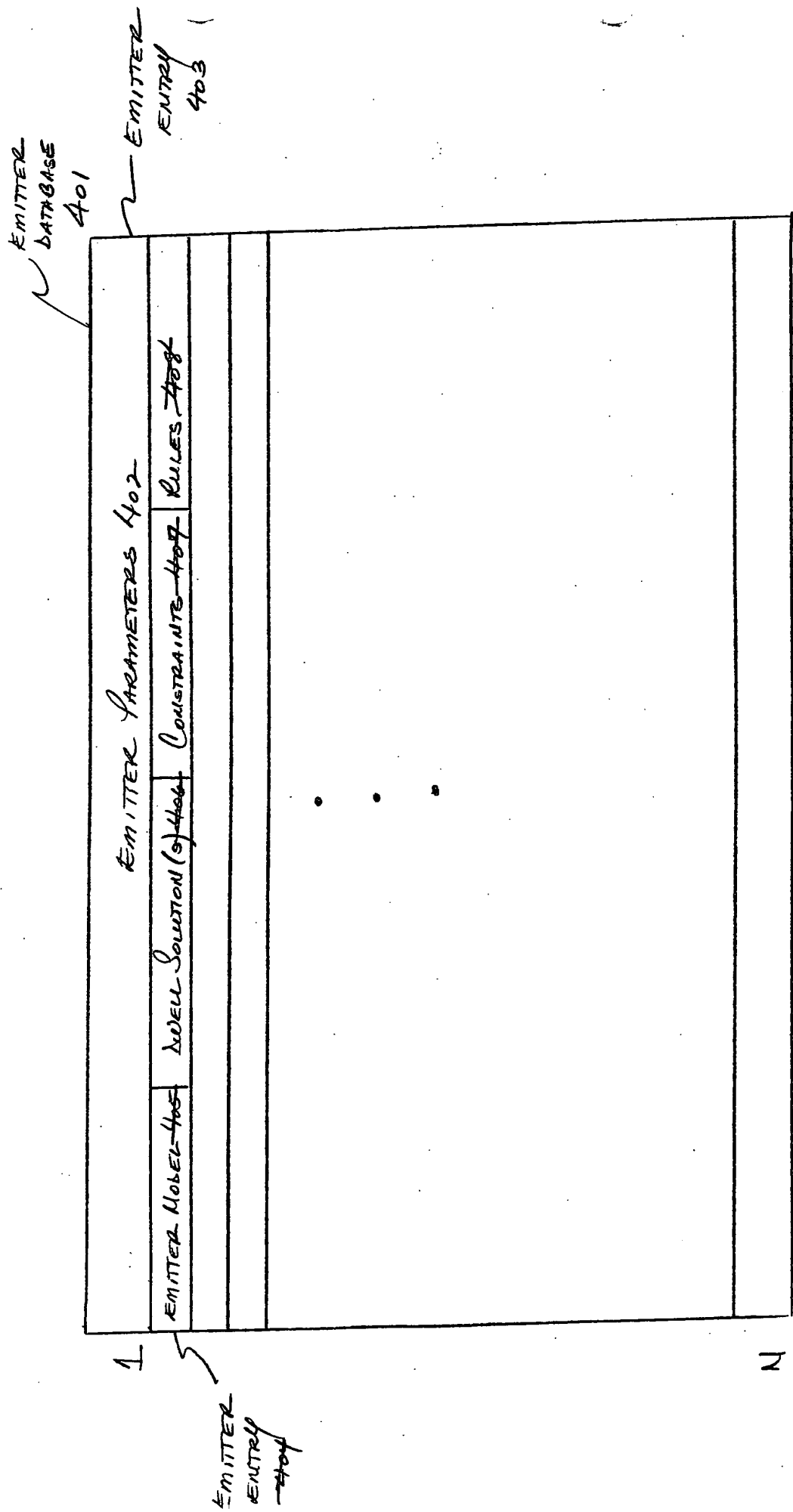


Figure 4

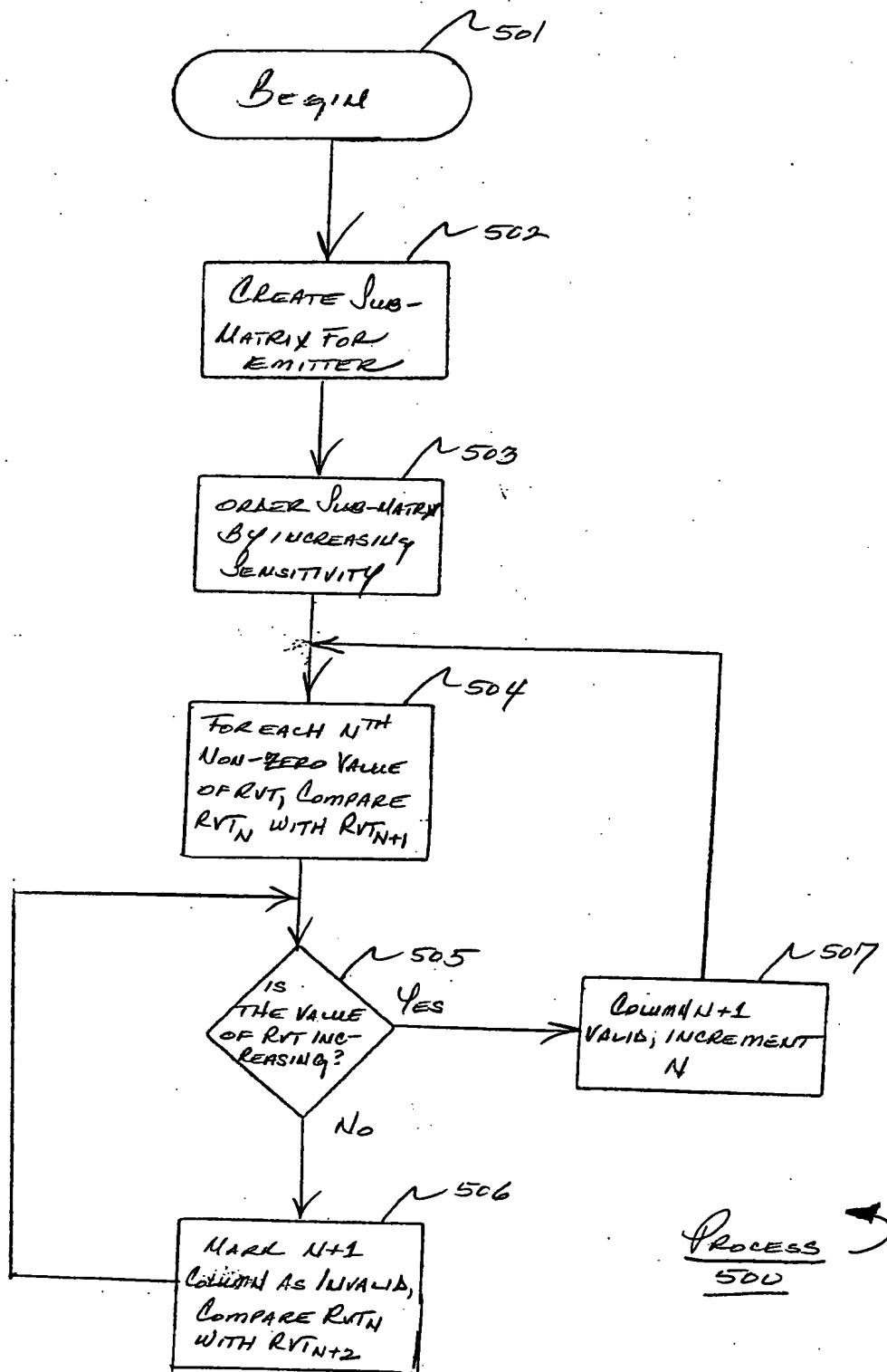


FIGURE 5

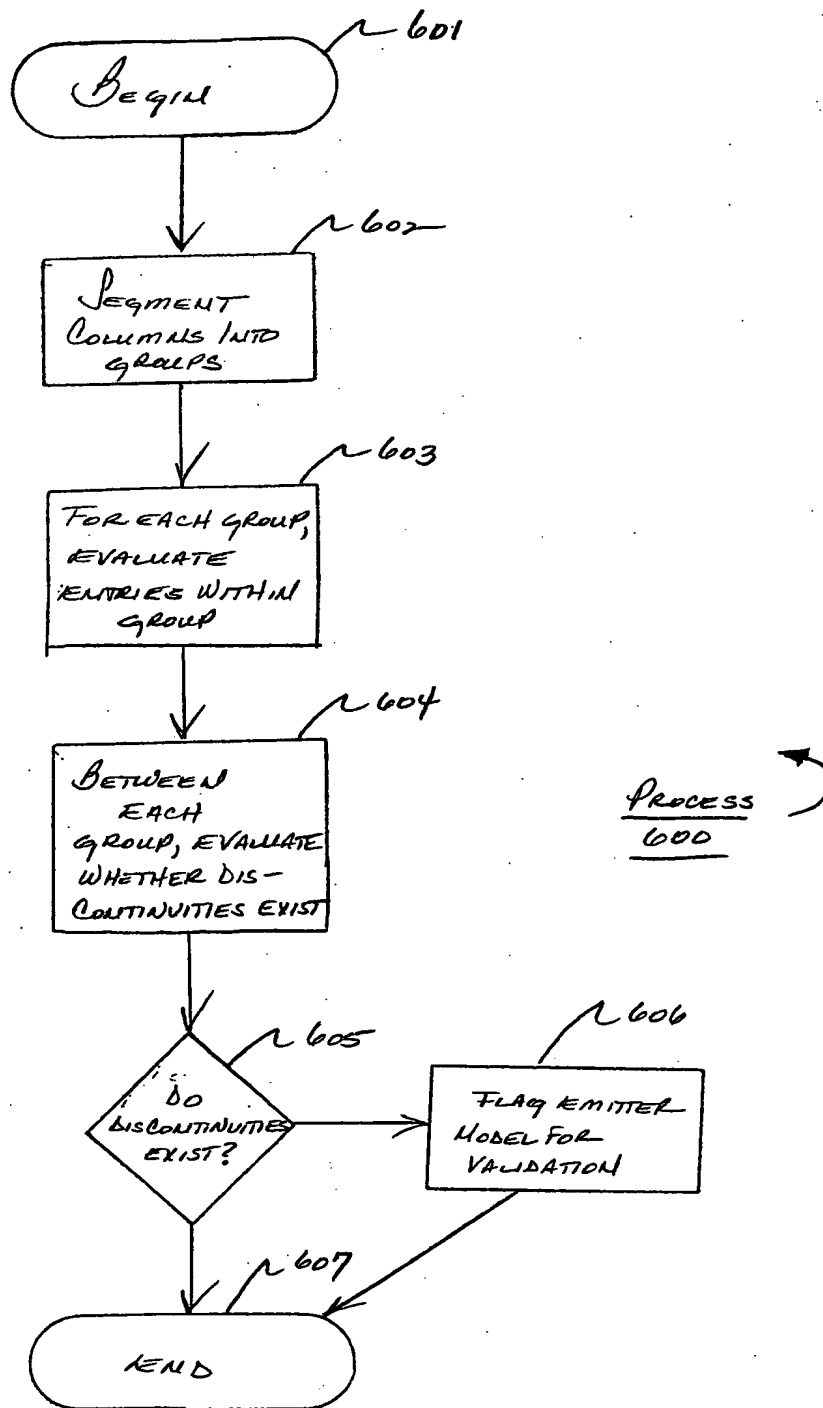


FIGURE 6

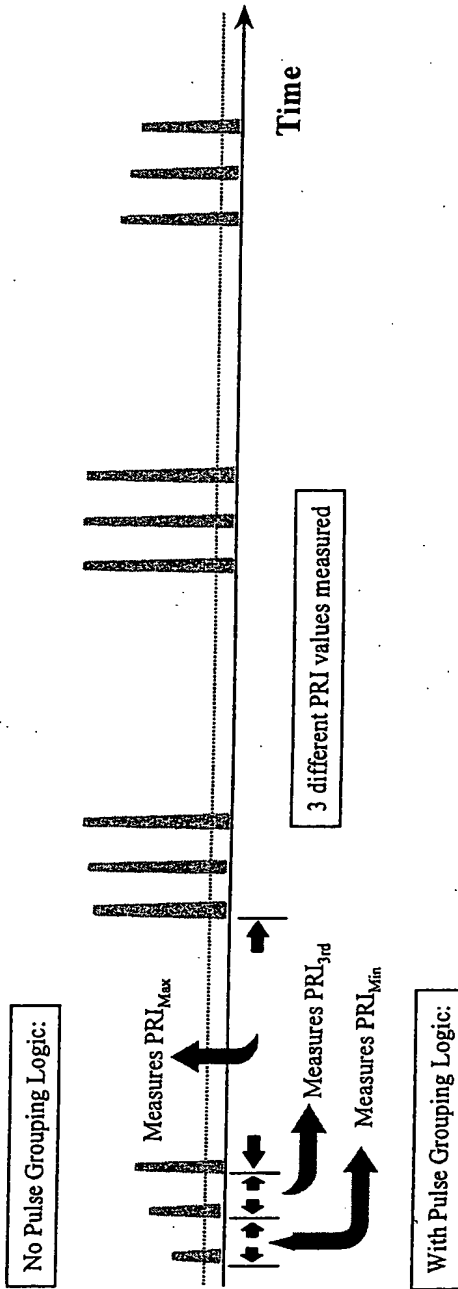


Figure 8A

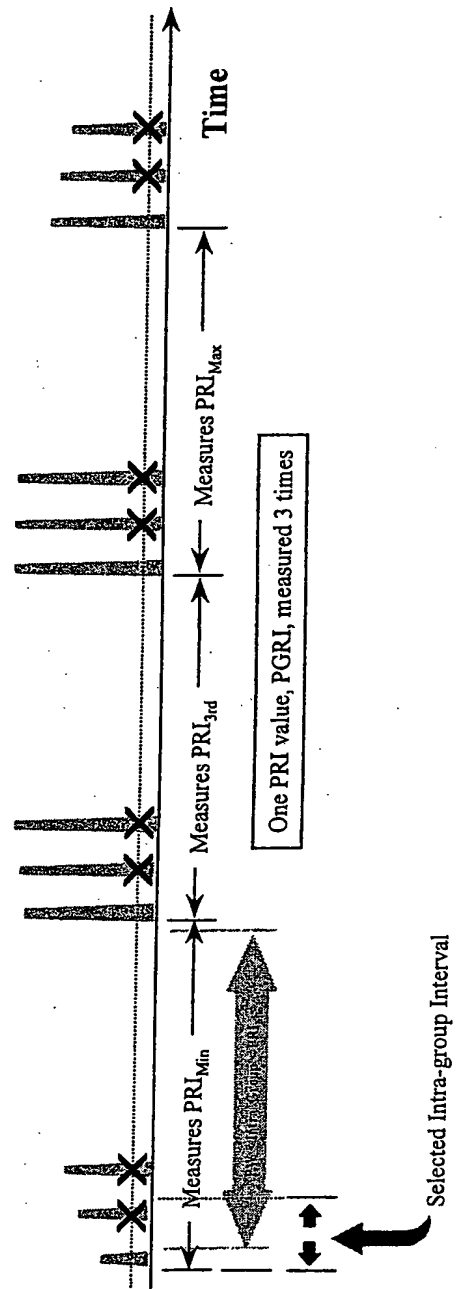


Figure 8B

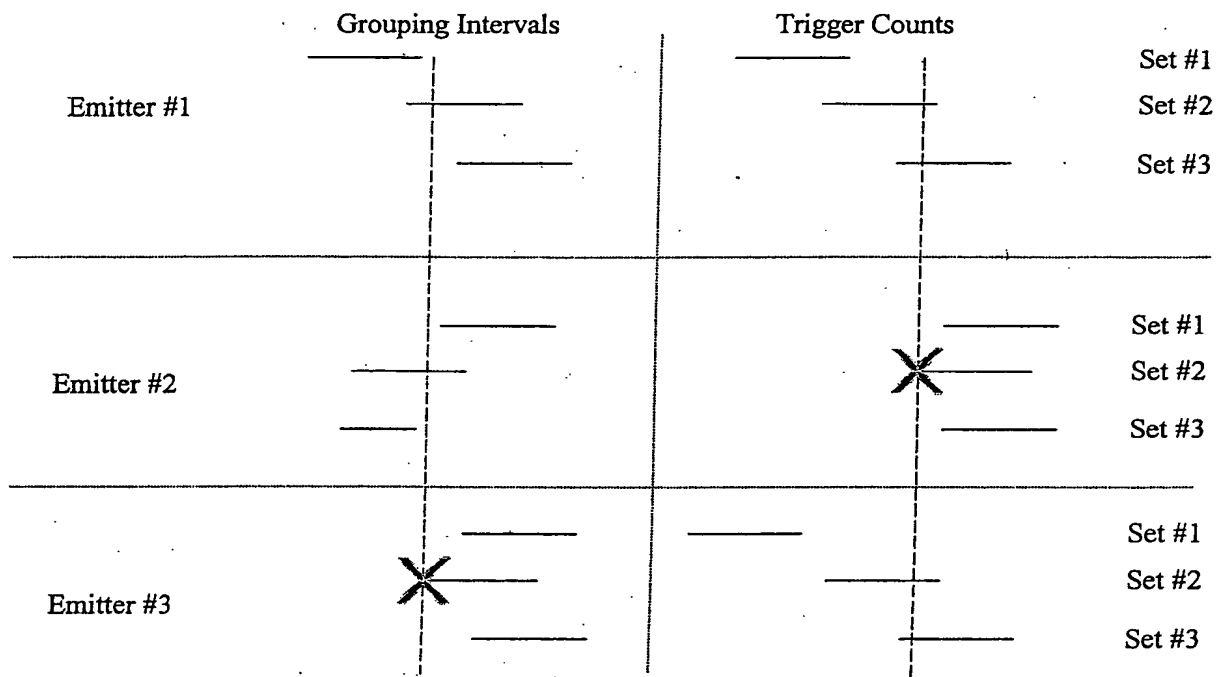
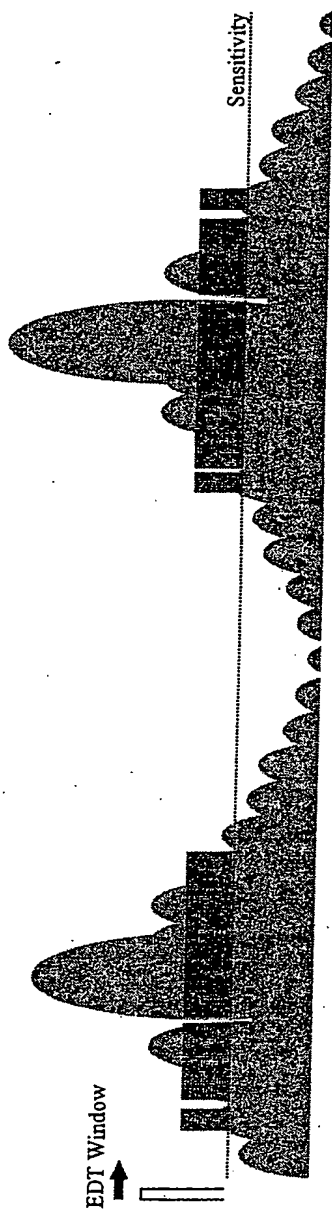


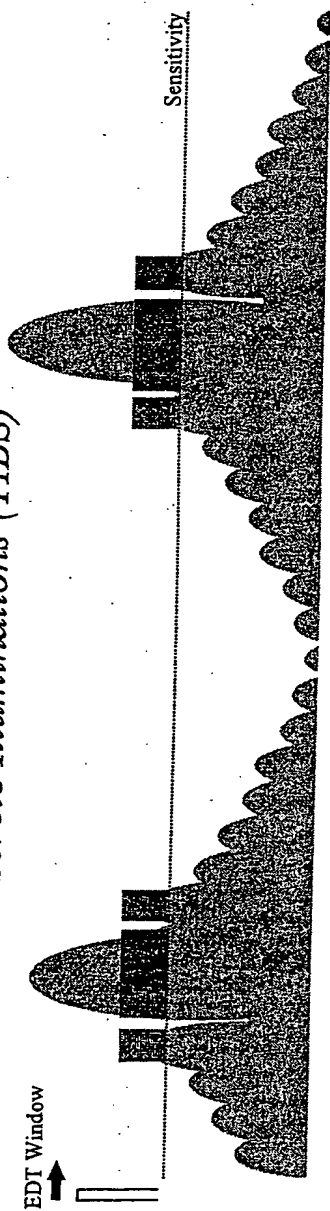
Figure 9

Figure 104



Discrete Illuminations (TIBS)

Figure 108



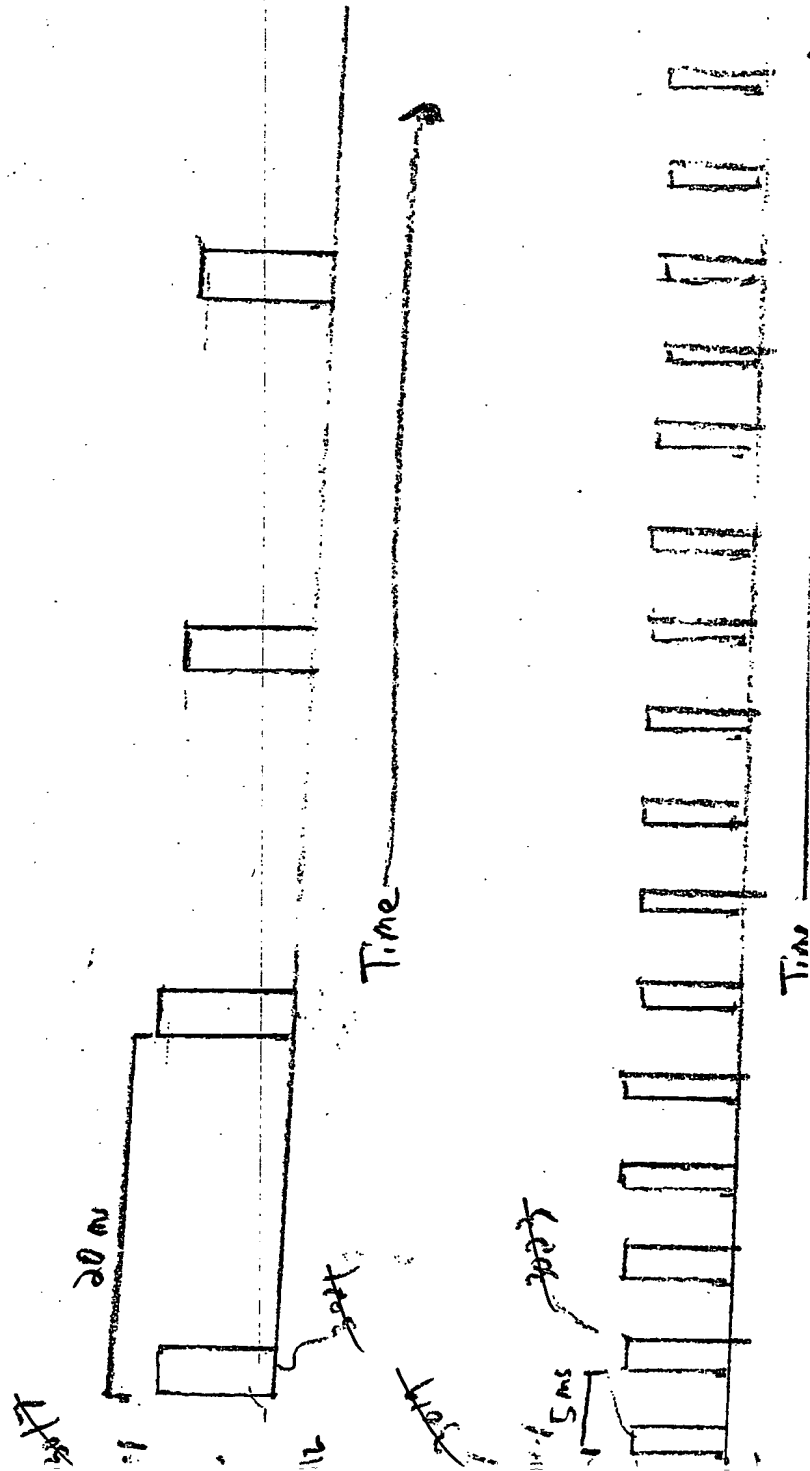
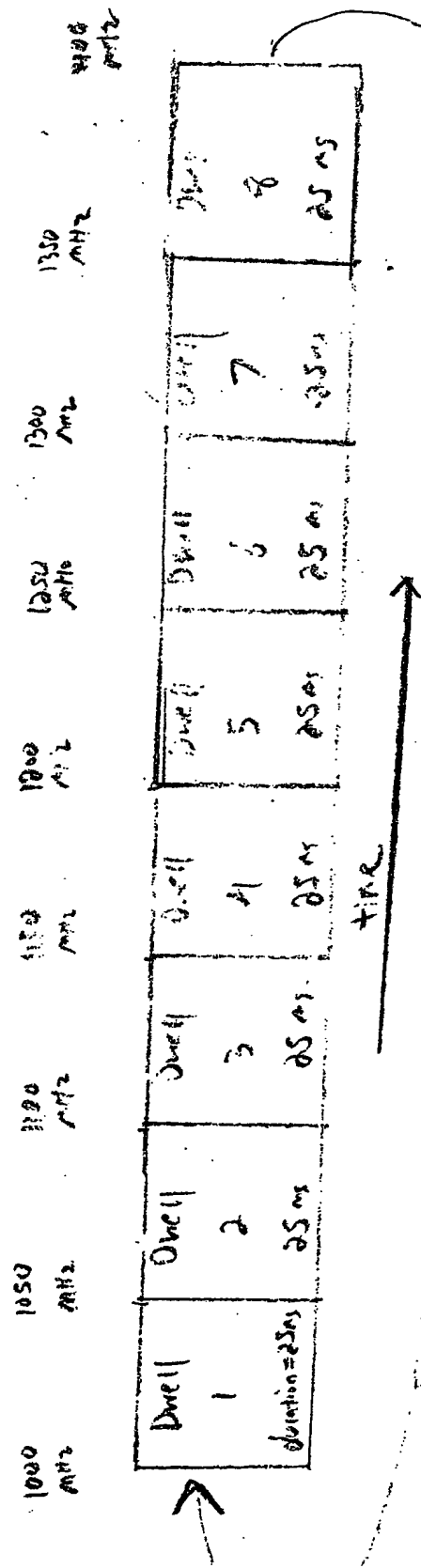
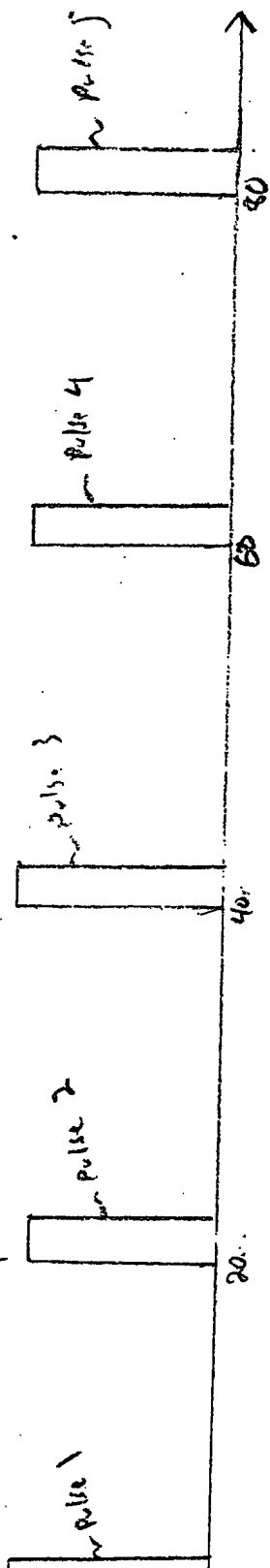
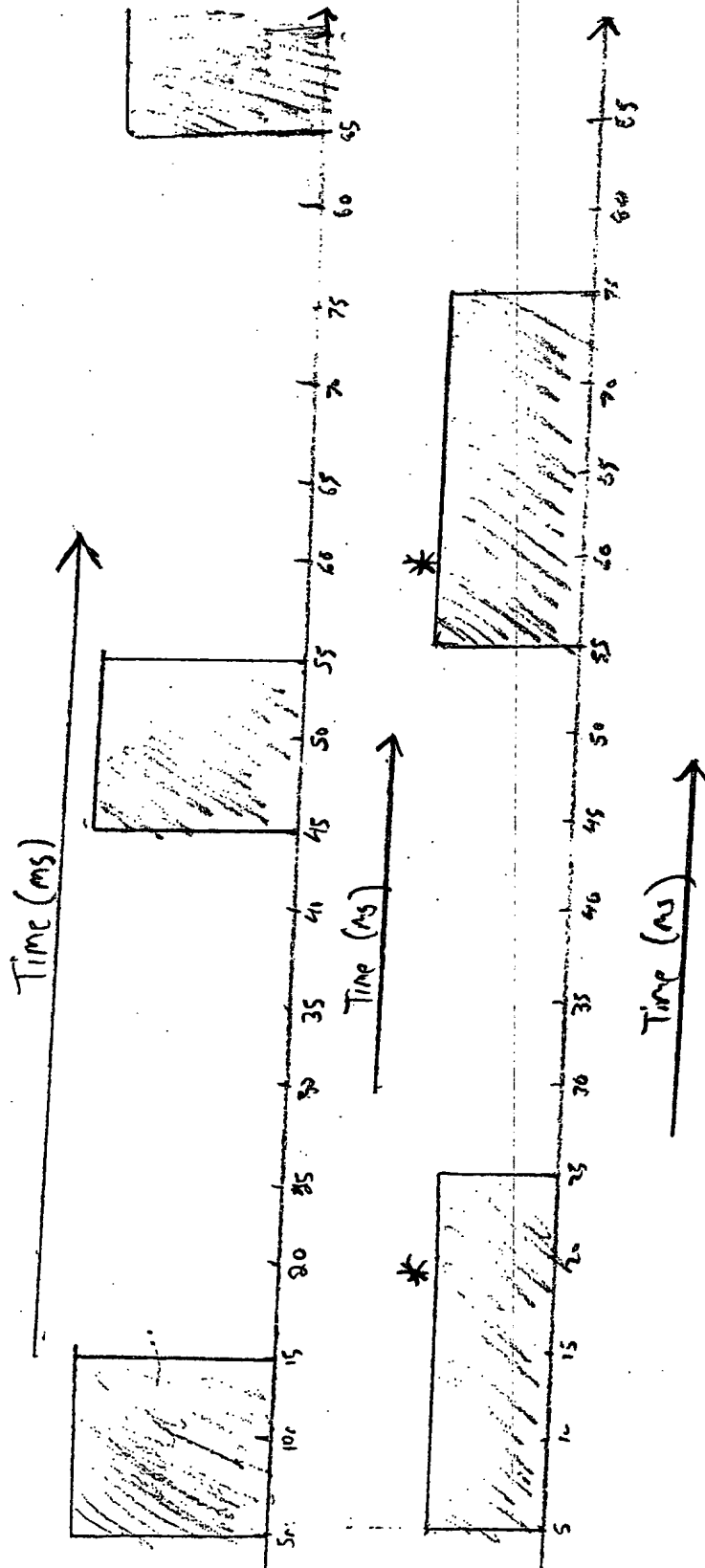


Figure 11

PRI = 20 μ s



Emitter 3101



Solution 1
Drill Duration = 10 ms
Revolution Time = 40 ms

Solution 2
Drill Duration = 20 ms
Revolution Time = 50 ms

Figure 12

4000

Emitter Name	250 MHz IF 15 MHz BW	250 MHz IF 30 MHz BW	RF Min (MHz)	RF Max (MHz)	MDT (ms)
E1	RV T 100 ns	RV T 650 ns	1000	1300	3
E2	RV T 120 ns	RV T 780 ns	1220	1350	5
E3	RV T 110 ns	RV T 330 ns	1510	1810	2
E4	RV T 130 ns	RV T 390 ns	1730	1860	4

Figure B

1000

Direll 1

$DD_{max} = 5$

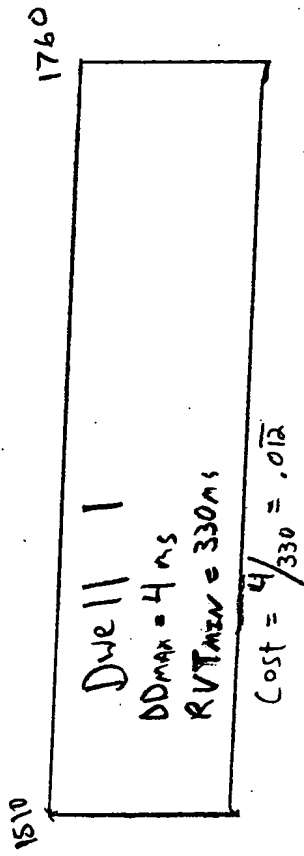
$RVT_{EN} = 100$

$Cost = 5/100 = .05$

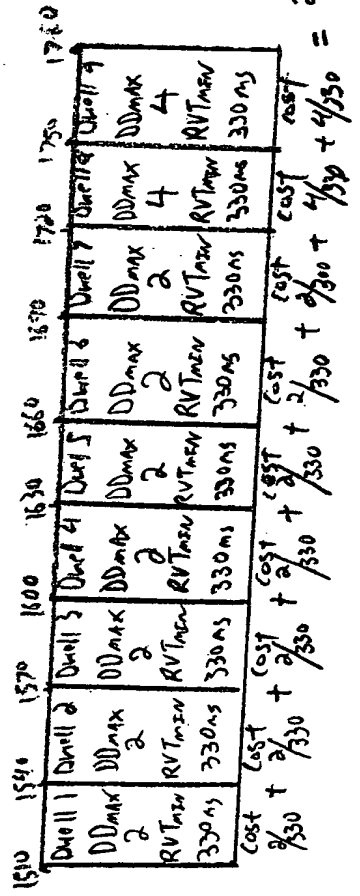
1250

	1030	1050	1120	1150	1180	1210	1240	1270
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9
DD max 3	DD max 3	DD max 3	DD max 3	DD max 3	DD max 3	DD max 3	DD max 5	DD max 5
RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
3/660	3/650 + 3/650	3/650 + 3/650	3/650 + 3/650	3/650 + 3/650	3/650 + 3/650	3/650 + 3/650	5/650 + 3/650	5/650 + 3/650

Figure 14A



Solution 1



Solution 2

Figure 14B

Figure 15

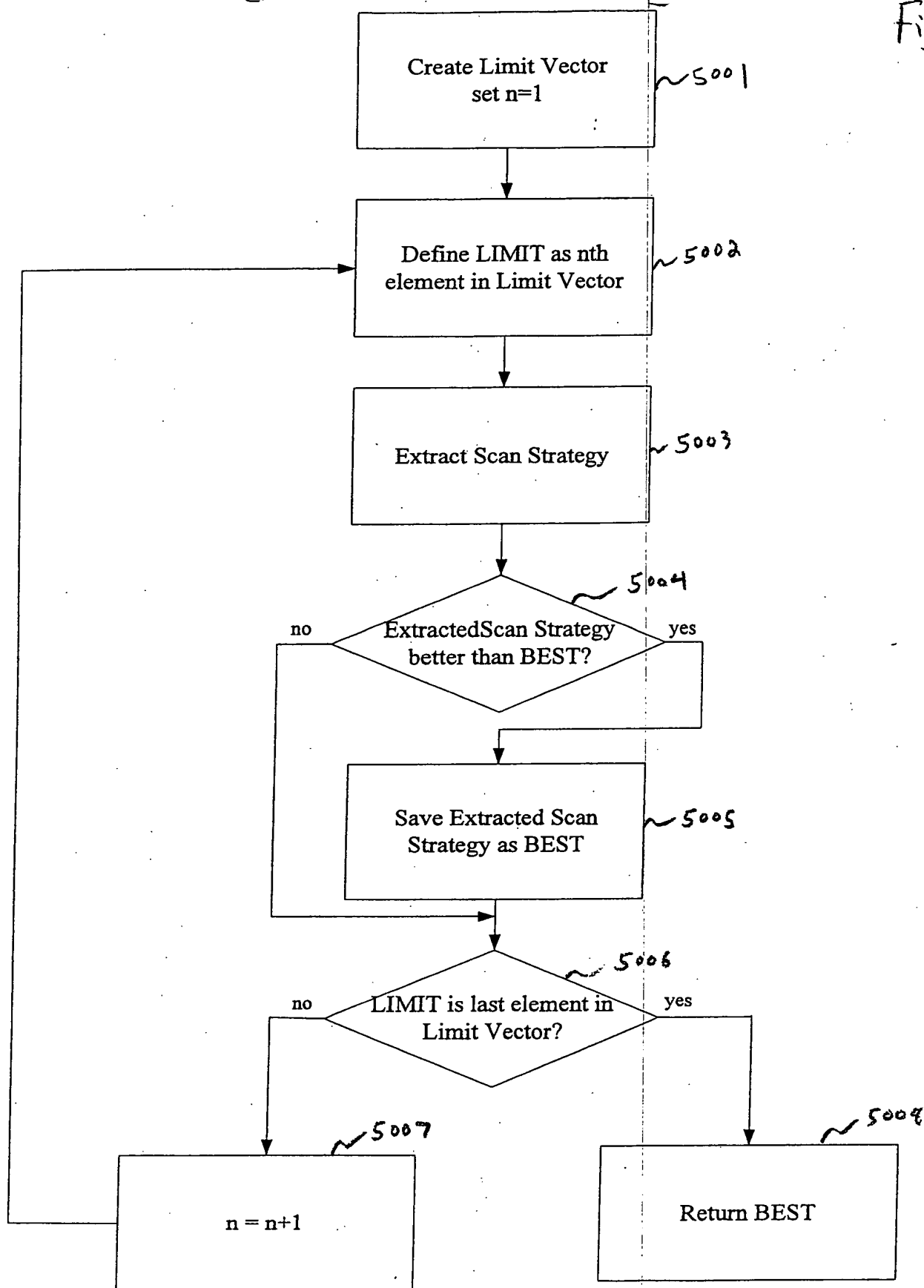
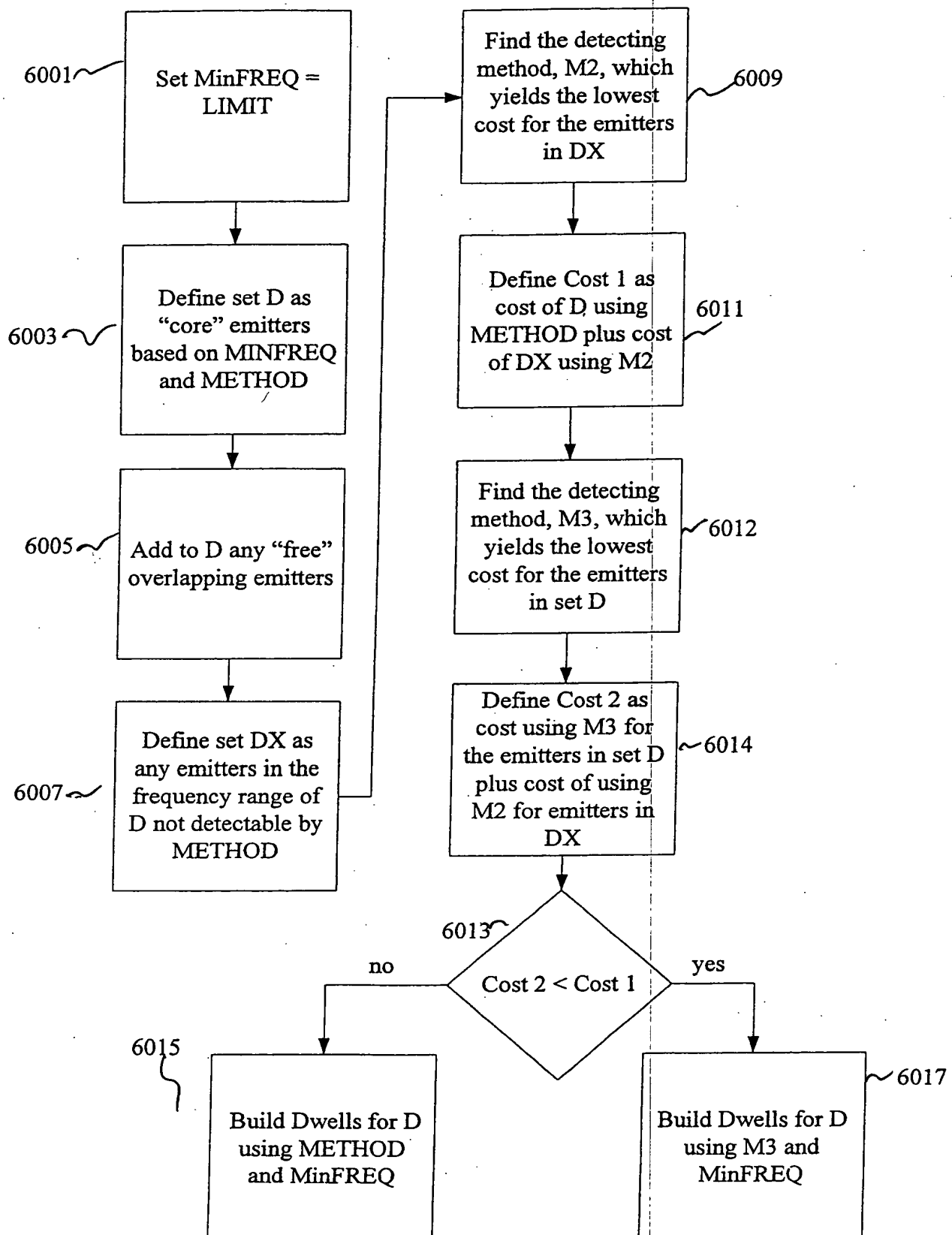


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

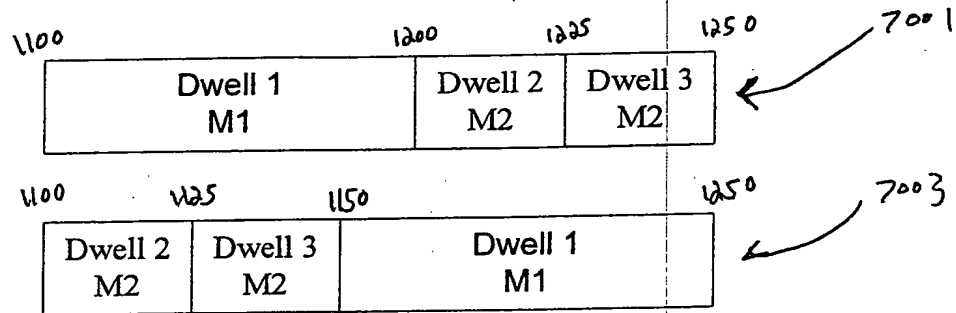
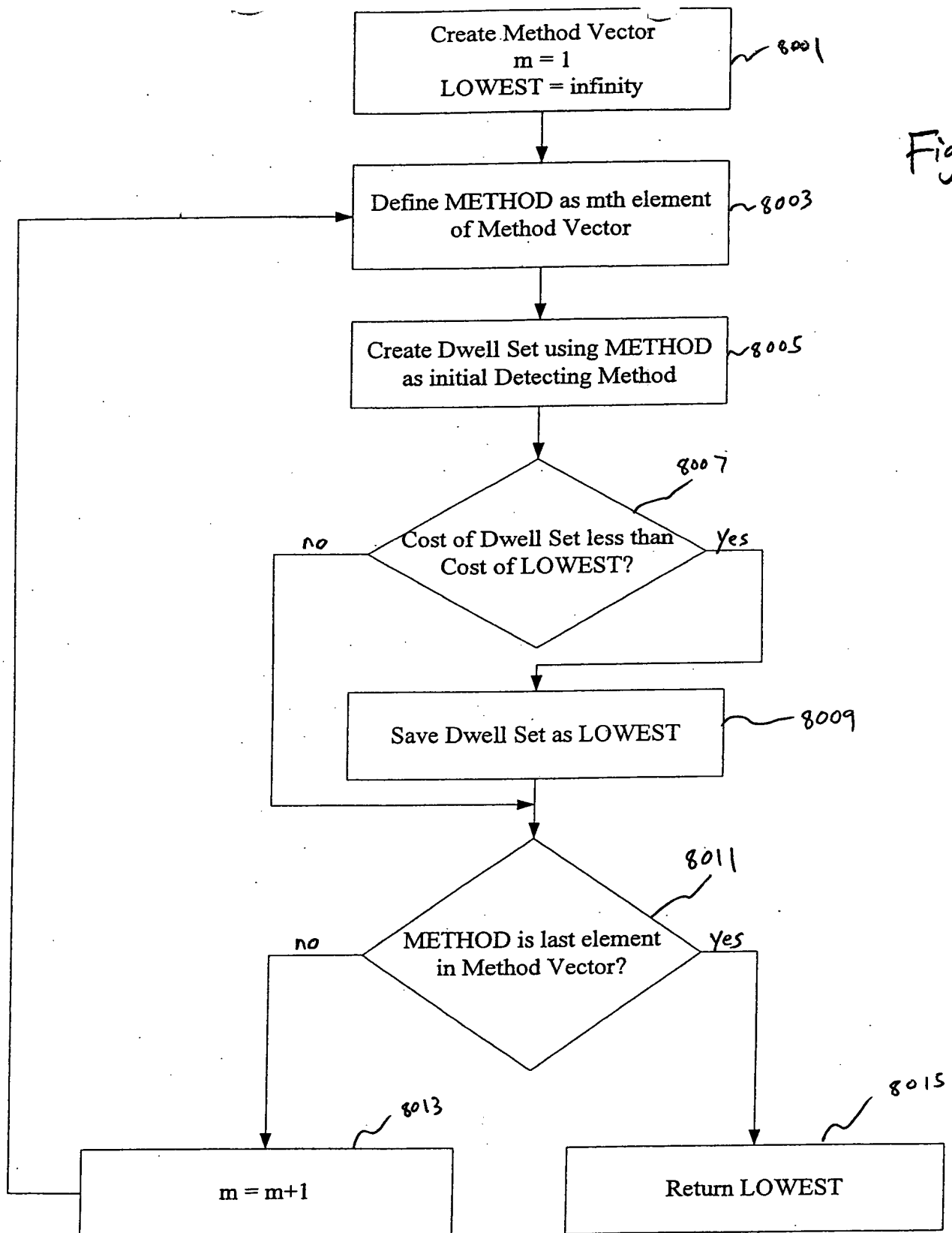


Figure 17

Figure 1:



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

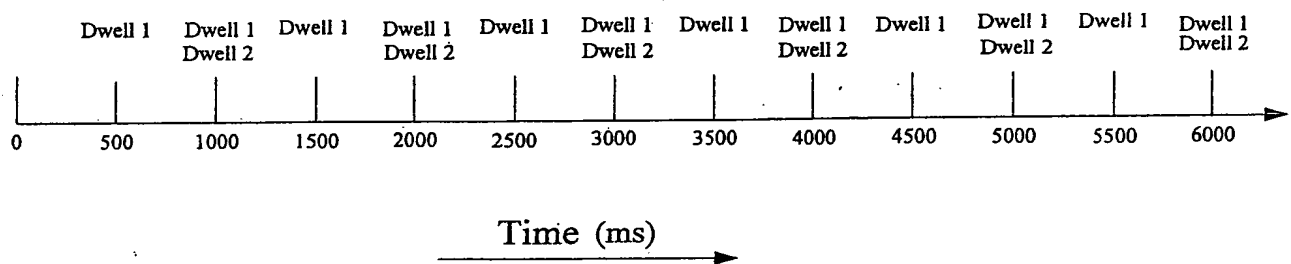


Figure 21

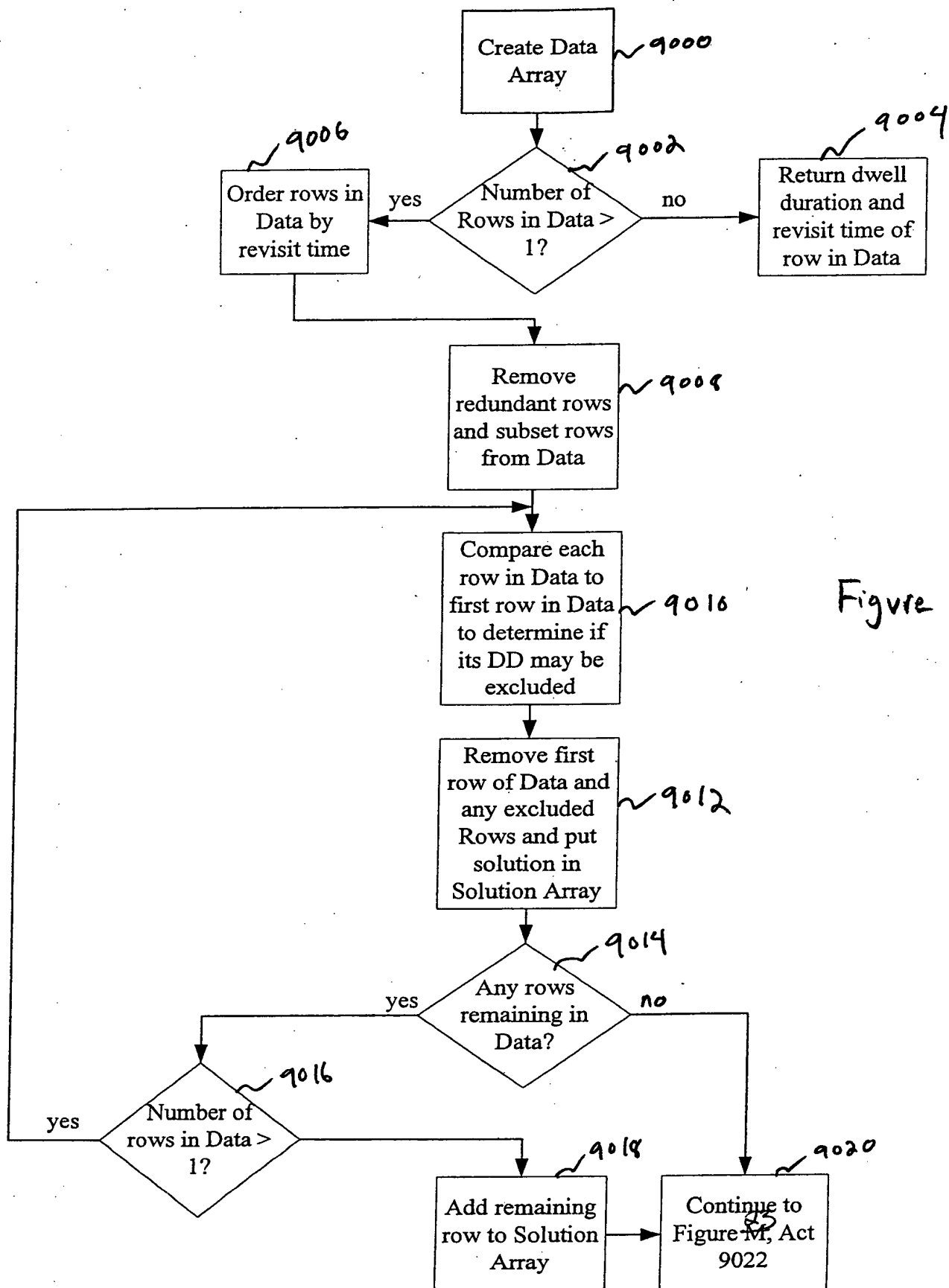


Figure 22

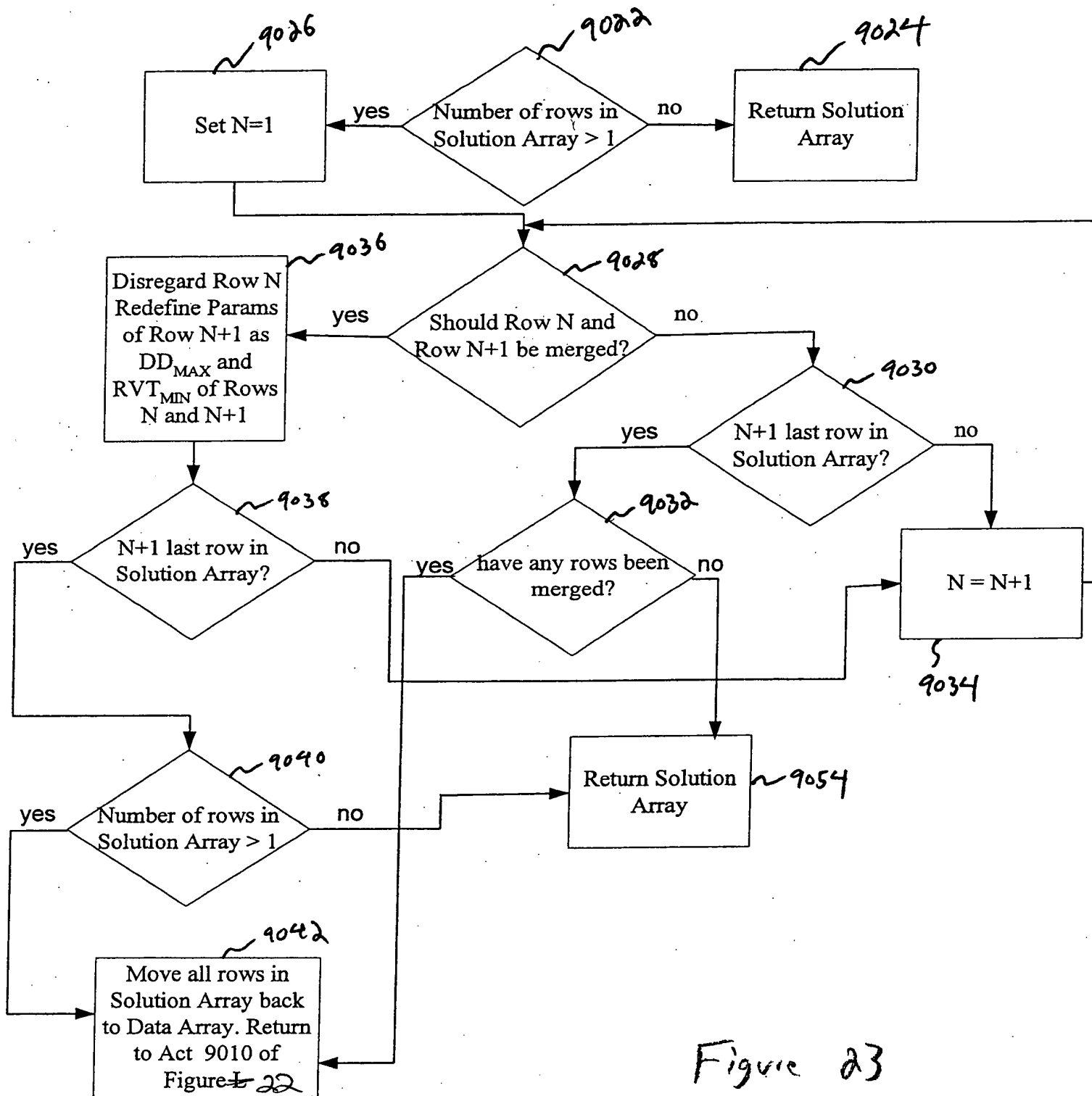


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048
9049
9050

Figure 24B

9051
9052

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

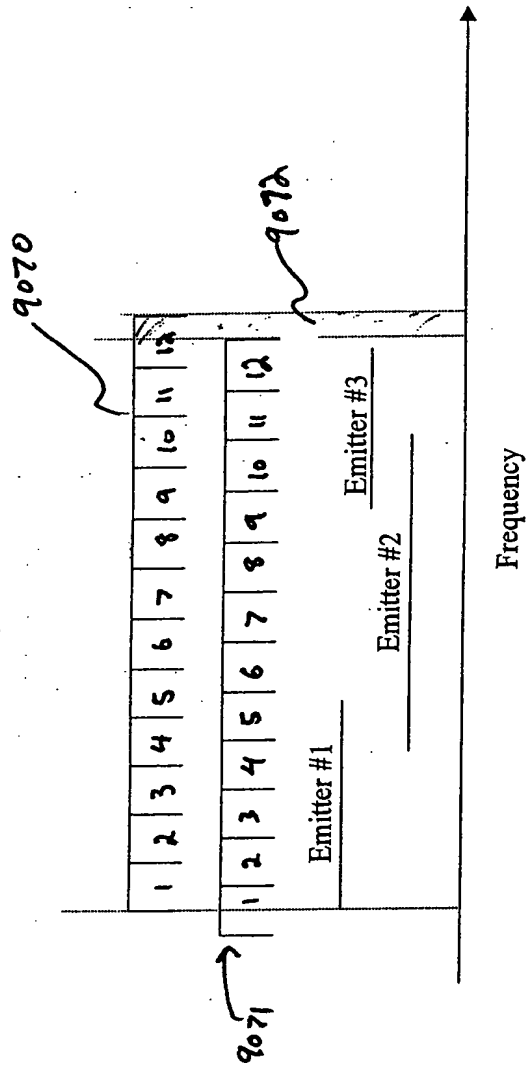


Figure 25

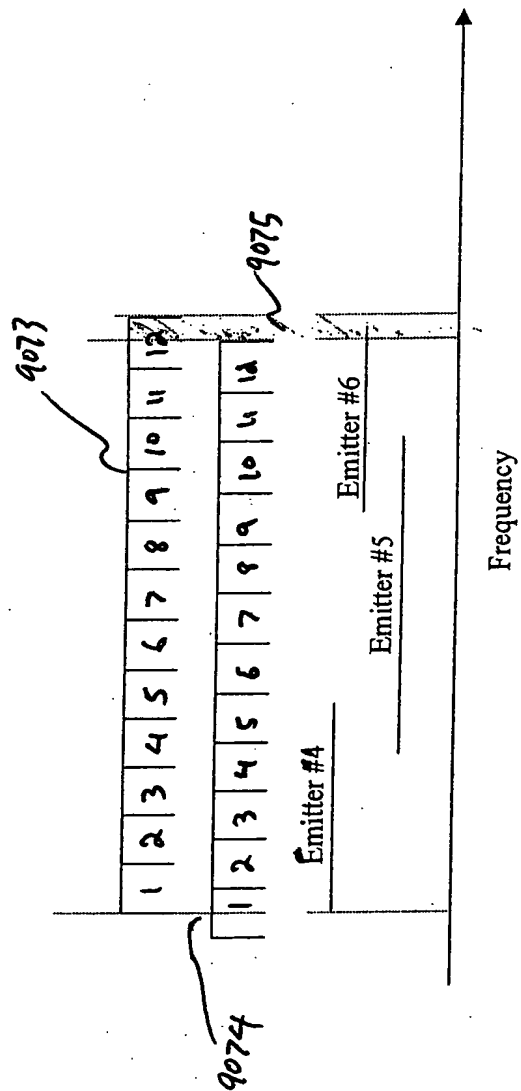


Figure 26

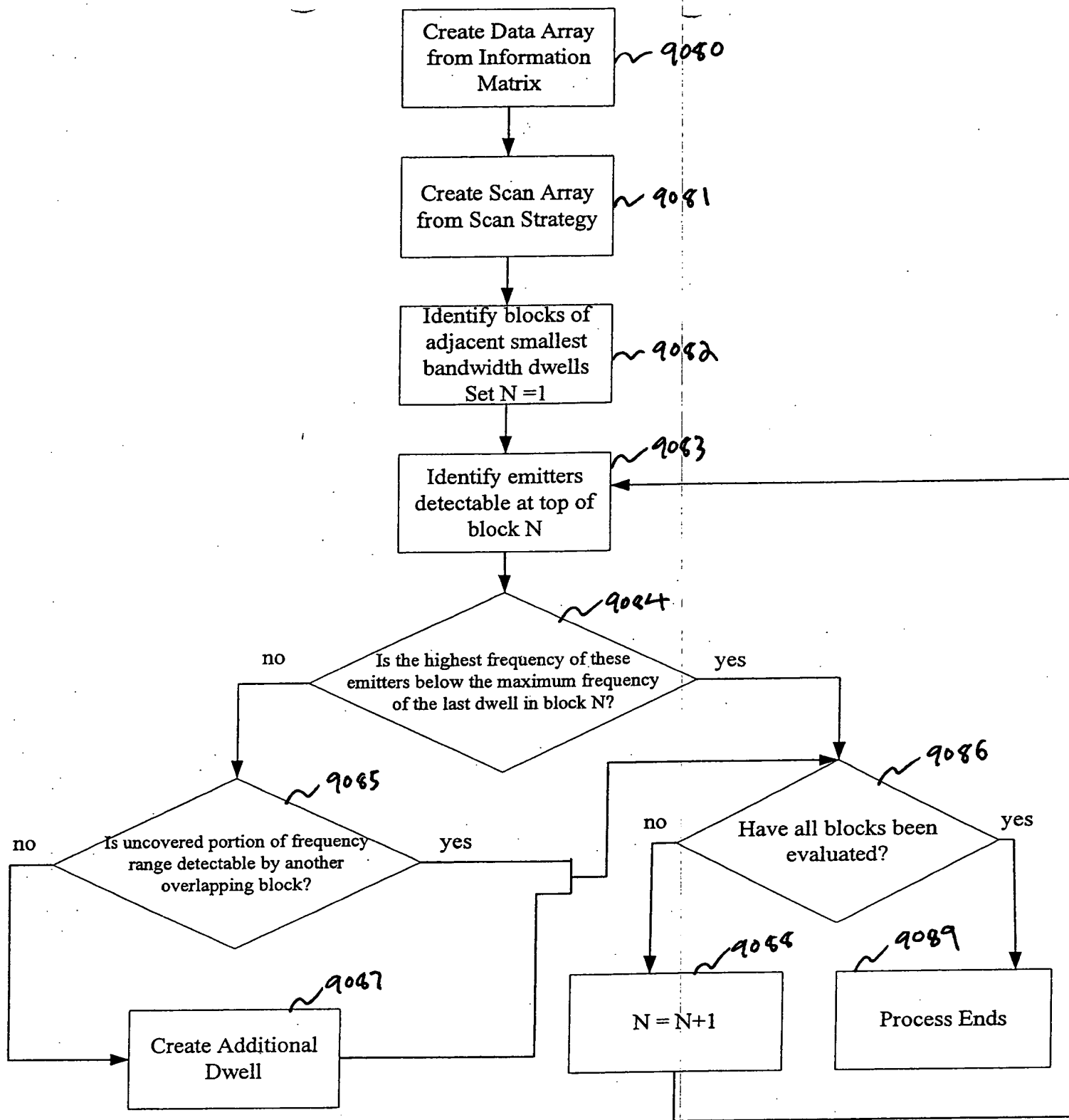


Figure 27

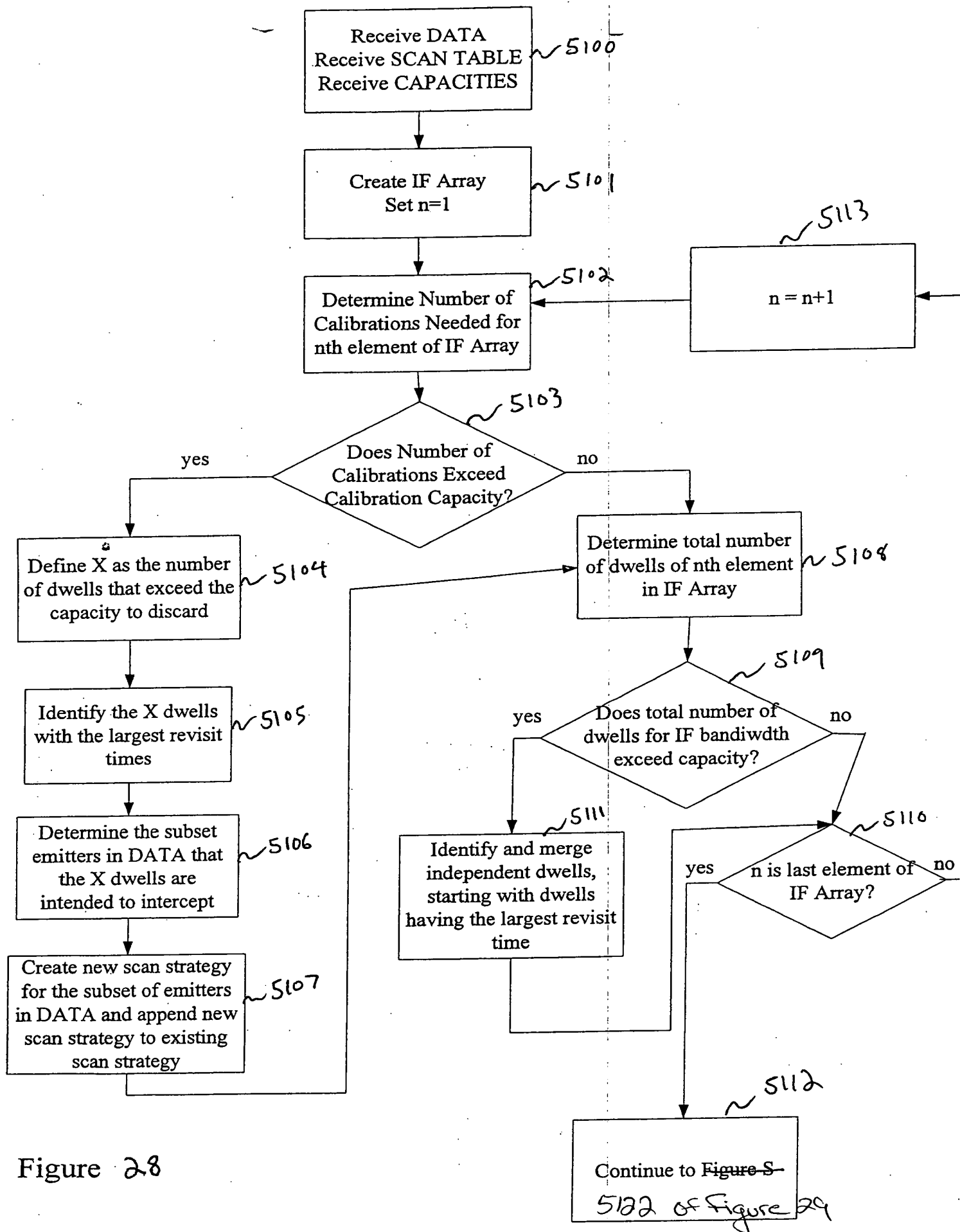


Figure 28

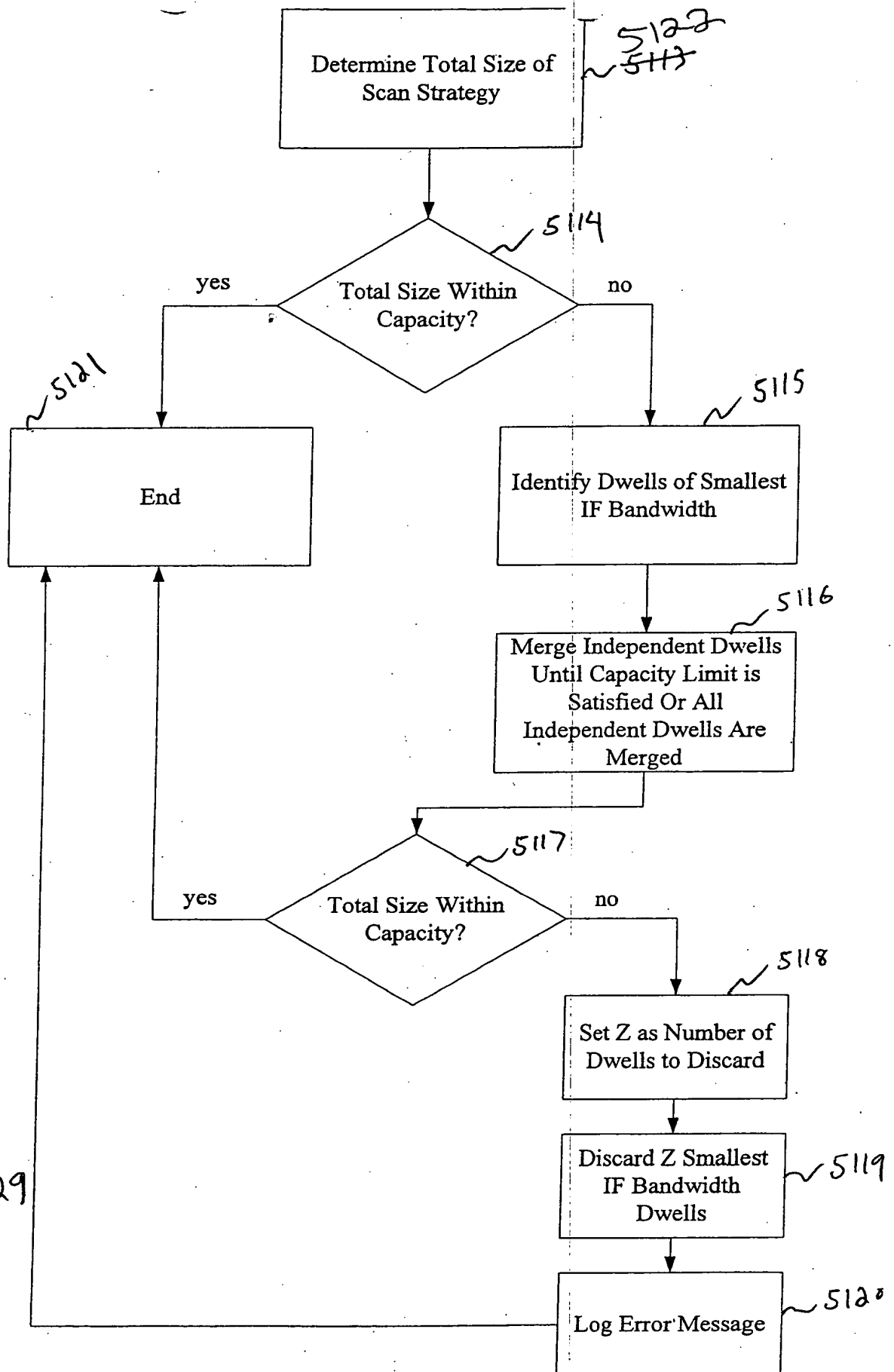


Figure 29

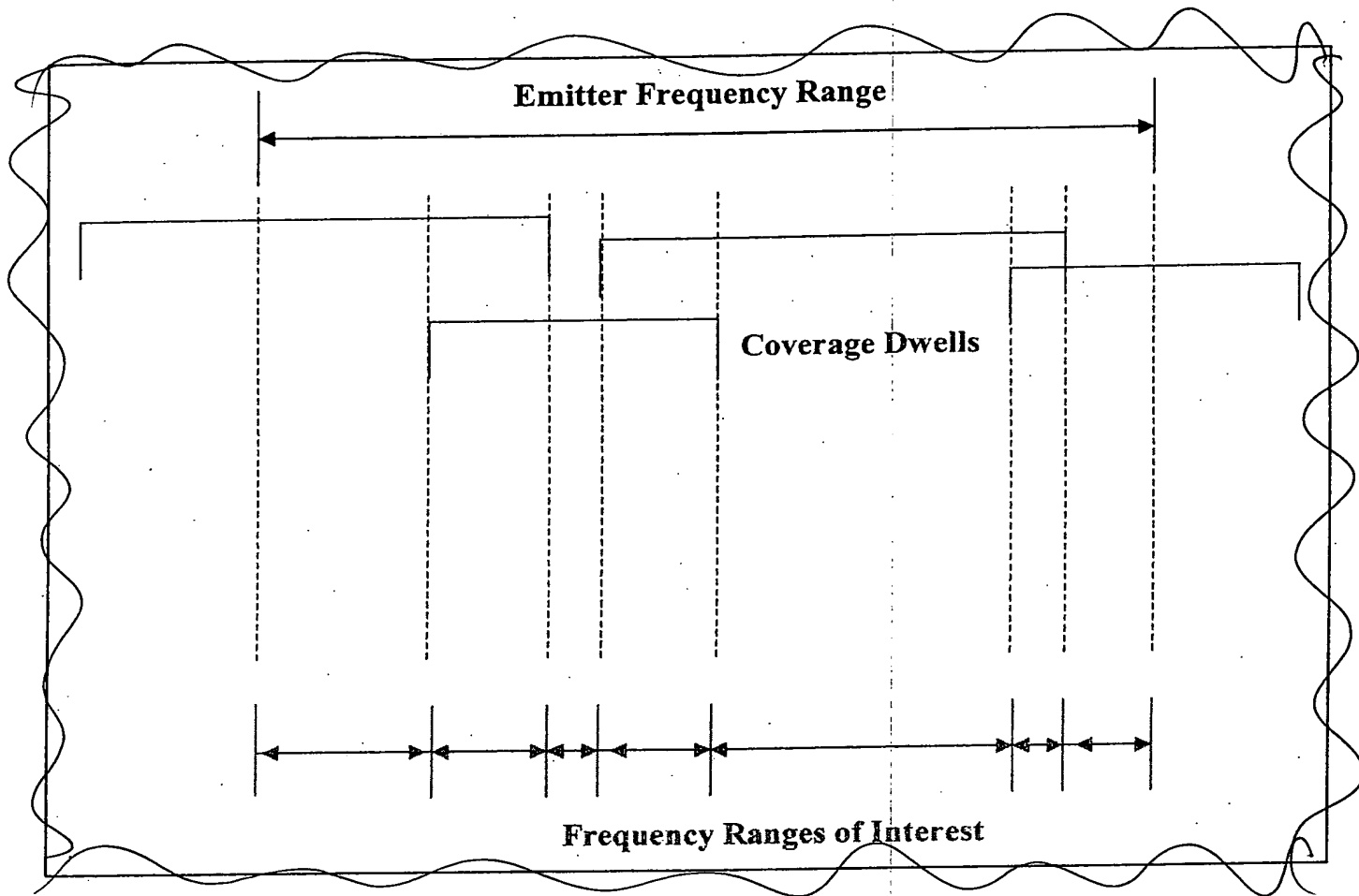


Figure 30

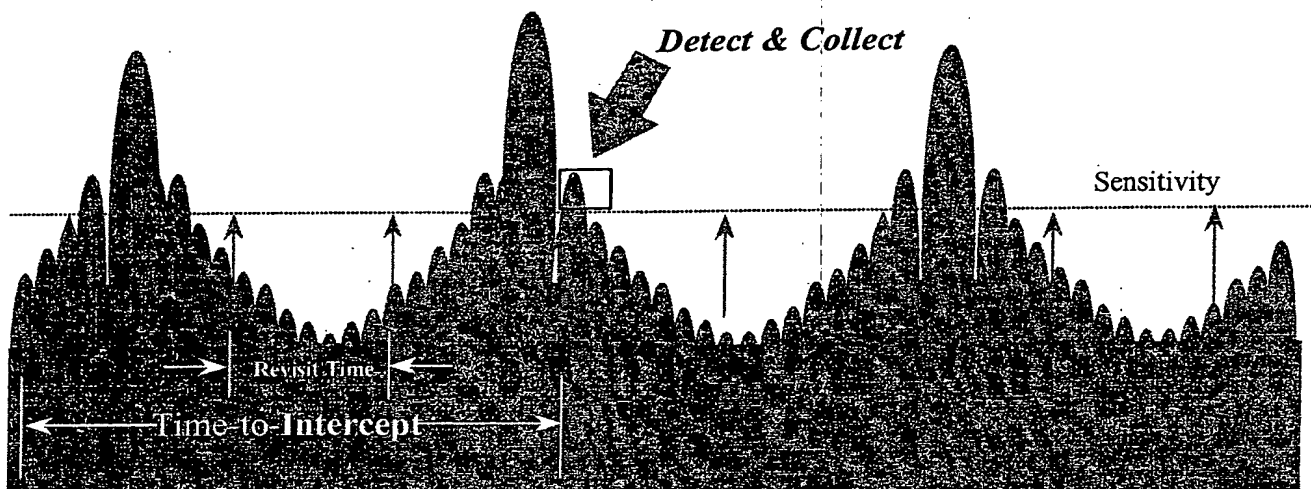


Figure 31

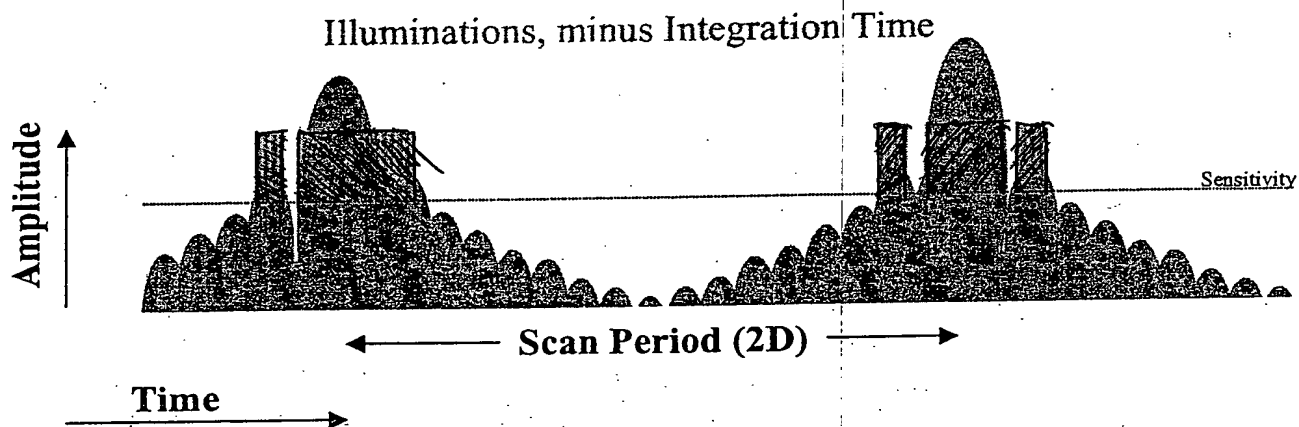


Figure 3d